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APPLICATION NO		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/522,359		03/09/2000	Wadood Hamad	A-6756	3106
1726	7590	03/09/2006		EXAMINER	
		L PAPER COMPA	FERGUSON, LAWRENCE D		
6285 TRI-I LOVELAN		OULEVARD 45140		ART UNIT	PAPER NUMBER
	,			1774	

DATE MAILED: 03/09/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	09/522,359	HAMAD ET AL.
Office Action Summary	Examiner	Art Unit
	Lawrence D. Ferguson	1774
The MAILING DATE of this communica	· · · · · · · · · · · · · · · · · · ·	1 1111
Period for Reply	DEDLY IC CET TO EXPIDE A MA	ONITU(O) OR TUIRTY (OO) RAYO
A SHORTENED STATUTORY PERIOD FOR WHICHEVER IS LONGER, FROM THE MAII - Extensions of time may be available under the provisions of 3 after SIX (6) MONTHS from the mailing date of this communical If NO period for reply is specified above, the maximum statute Failure to reply within the set or extended period for reply will, Any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b).	LING DATE OF THIS COMMUNIC BY CFR 1.136(a). In no event, however, may a re- cation. bry period will apply and will expire SIX (6) MONT by statute, cause the application to become ABA	CATION. Paper be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed of	on <u>12 December 2005</u> .	
2a) This action is FINAL . 2b)	☑ This action is non-final.	
3)☐ Since this application is in condition for	·	•
closed in accordance with the practice	under <i>Ex parte Quayle</i> , 1935 C.D.	. 11, 453 O.G. 213.
Disposition of Claims		
4)⊠ Claim(s) <u>1-4,6,8 and 18-36</u> is/are pend	ing in the application.	
4a) Of the above claim(s) is/are	withdrawn from consideration.	
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1-4,6,8 and 18-36</u> is/are reject	ted.	
7) Claim(s) is/are objected to.		•
8) Claim(s) are subject to restriction	n and/or election requirement.	
Application Papers		
9)☐ The specification is objected to by the E	xaminer.	
10) The drawing(s) filed on is/are: a)□ accepted or b)□ objected to b	y the Examiner.
Applicant may not request that any objectio		• •
Replacement drawing sheet(s) including the		
11) The oath or declaration is objected to by	y the Examiner. Note the attached	Office Action or form PTO-152.
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for	foreign priority under 35 U.S.C. §	119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:		
1. Certified copies of the priority do		
2. Certified copies of the priority do		
3. Copies of the certified copies of t		received in this National Stage
application from the International	* * * * * * * * * * * * * * * * * * * *	
* See the attached detailed Office action for	or a list of the certified copies not r	eceived.
.ttachment(s)		
) X Notice of References Cited (PTO-892)	4) Interview Su	ımmary (PTO-413)
) Notice of Draftsperson's Patent Drawing Review (PTO-	.948) Paper No(s)	/Mail Date
 Information Disclosure Statement(s) (PTO-1449 or PTO Paper No(s)/Mail Date 	D/SB/08) 5) Notice of Inf 6) Other:	formal Patent Application (PTO-152)

DETAILED ACTION

Response to Amendment

This action is in response to the amendment mailed December 12, 2005.
 Claims 1, 3 and 18 were amended and claims 20-36 were added, rendering claims 1-4,
 8 and 18-36 pending in this case.

Claim Rejections - 35 USC § 102(b)

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-3, 6, 20-27, 29 and 31-36 are rejected under 35 U.S.C. 102(b) as being anticipated by Lawson (U.S. 4,161,422).

Lawson discloses an impregnated paper comprising thermosetting resin (column 1,lines 21-22) having a pattern of impregnated zones in the form of discontinuous areas of any desired geometrical shape or configuration, such as circles, stripes, or regular or irregular polygons (column 3,lines 39-62). Lawson further discloses the paper has a polyester or acrylic composition (column 2, lines 55-57).

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Claim Rejections - 35 USC § 103(a)

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 4 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lawson (U.S. 4,161,422).

Lawson is relied upon for instant claim 1. Lawson does not explicitly disclose the base weight percent of the polymer material. Basis weight percent are properties which can be easily determined by one of ordinary skill in the art. With regard to the limitation of the weight percentage, absent a showing of unexpected results, it is obvious to modify the conditions of a composition because they are merely the result of routine experimentation. The experimental modification of prior art in order to optimize operation conditions (e.g. weight percent) fails to render claims patentable in the absence of unexpected results. The weight percentage is optimizable as it directly affects the durability and flexibility of the paper. It would have been obvious to one of ordinary skill in the art to make the paper with the limitations of the weight percentage since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. *In re Boesch*, 617 USPQ 215 (CCPA 1980).

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Claim Rejections – 35 USC § 103(a)

6. Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lawson (U.S. 4,161,422) in view of Eber et al (U.S. 4,488,932).

Lawson is relied upon for claim 1 as above. Lawson does not explicitly disclose styrene butadiene in the paper structure. Eber teaches paper made of pulp having a geometric component which comprises styrene butadiene (column 15, line 42 through column 16, line 10). Lawson and Eber are both directed to paper compositions. It would have been obvious to one of ordinary skill in the art to have employed the styrene butadiene, as taught in Eber, in the paper of Lawson to improve the tensile strength of the paper (column 15, lines 42-68).

Claim Rejections - 35 USC § 103(a)

7. Claims 19 and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lawson (U.S. 4,161,422) in view of Mitchell et al (U.S. 6,010,595).

Lawson is relied upon for claim 1 as above. Lawson does not explicitly disclose cellulose acetate butyrate in the paper structure. Mitchell teaches a paper or paperboard comprising cellulose pulp fiber, polyester (column 2, lines 44-67) and cellulose acetate butyrate (column 6, lines 16-20).

Lawson and Mitchell are both directed to paper compositions. It would have been obvious to one of ordinary skill in the art to have employed the cellulose acetate butyrate, as taught in Mitchell, in the paper of Lawson to improve the cohesiveness of the paper.

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Response to Arguments

8. The objection of claim 18 is withdrawn due to Applicant amending the claim as requested.

The arguments in regards to rejection under 35 U.S.C. 102(b) as being anticipated by Caldwell (U.S. 5,209,965) are moot based upon grounds of new rejection.

Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lawrence Ferguson whose telephone number is 571-272-1522. The examiner can normally be reached on Monday through Friday 9:00 AM – 5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rena Dye, can be reached on 571-272-3186. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

L. Ferguson

Patent Examiner

AU 1774

RENA DYE
SUPERVISORY PATENT EXAMINER

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